

Spectroscopic Determination of the Dipole Moment
of Aromatic Compounds in the First Excited Singlet
State, by E. Lippert, 40 pp.

GERMAN, *pt.*, *Z. fuer Elektrochemie*, Vol LXI,
No 8, 1957, pp 962-975.

MEM Tr 9-31-60

Sci - Chem

Nov 60

131, 341

**The Hydrogen Fluoride. II. The Association
in the Gas at High Pressures, by W.**

Spitthoff, E. U. Franck, 14 pp.

**GERMAN, par, Zeitschrift für Elektro-
chemie, Vol 61, No 8, 1957, pp 993-1000.**

RIA 77-65-10199

316,224

**Sci
Aug 67**

Investigation of Intermolecular Interactions
Through Hydrogen Bonds in Binary Mixtures,
With Boiling Point Maxima (Vapor Pressure
Minima) by Means of Raman Spectra, by G. -M.
Schwab, G. Glatzer, 30 p.

GERMAN, per, Zeit fur Elektrochem 1957,
Vol LXI, No 8, pp 1028-1048.

AIS-82L330

Sci
Apr 60
Vol. XII, No 2

113, 618

On Diffusion in Ag-Al Alloys, by
Th. Heumann, et al, 9 pp.
GERMAN, per, Zeitschrift für Elektrochemie
61, 1957, pp. 1138-1146.
*CFSTI TT 70-58078
AVAILABLE FROM NBS ONLY

Sci/chem
Apr 70

Significance of Pore Diffusion in the Reduction of
Iron Ores, by L. Bogdandy, W. Janke.

GERMAN, per, Z fuer Elektrochemie, Vol LXI, No 9,
1957, pp 1146-1153.

CRL/T. 879

Sci *...*
Jun 63

Coating (Film) Processes on Zinc Anodes in
Caustic Soda Solution, by R. Lamsberg, 16 pp.
GERMAN, per, Zeitschrift Für Elektrochemie,
No 9, 1957, pp 1162-1168.
ACSI J-4889
FSTC-HR-23-161-68

Sci/Chem
Aug 68

361,335

Investigation of the Oxygen Film on Noble
Metal Electrodes. II. Smooth Iridium
Electrodes, by M. Breiter, K. Hoffmann,
C. A. Knorr, 15 pp.

GERMAN, par, Z fuer Elektrochemie, XXXXX
Vol LXI, No 9, 1957, pp 1168-1176.

SLA 60-16281

Mar 62

The Inner Resistance of Potentiostatic Regulating C Circuits and Examples of the use of a Potentiostat, by M. Breiter, F. G. Will
GERMAN, per, Z. Elektrochem, Vol 61, 1957,
pp 1177-1183.
AEC ONNL-tr-574

Sci/Electronics
Nov 66

314,309

Measurements of the Impedance of the Phase Boundary
Between Germanium and Electrolyte, by K. Bohnenkamp,
H. J. Engell, 45 pp.

GERMAN, per, Z Elektrochemie, Vol LXI, No 9,
1957, pp 1184-1196.

SLA 59-10962

Sci - Chem
Sep 59
Vol 2, No 1

97,279

A Measuring Method for the Determination
of Thermal Conductivity at 1100C.
by Kl. Schafer, F. W. Reiterm. ✓
GERMAN, per, Zeit fur Elektrochemie,
Vol LXI, No 9, 1957, pp 1230-1235.
SLA TT 64-30306

Sci
May 67

3287,228

61-10523

Jander, Gerhart and Weis, Josef.
MOLTEN ANTIMONY TRIBROMIDE AS AN IONIZING SOLVENT AND THE BEHAVIOR THEREIN OF DISSOLVED SUBSTANCES. I (Geschmolzenes Antimon (III)-bromide als Ionisierendes Lösungsmittel und das Verhalten Darin Gelöster Substanzen. I). [1960] [20]p. 21 refs.

Order from SI A m142. 40, ph\$3.00 61-10523

Trans. of Zeitschrift für Elektrochem[ie] (West Germany) 1957. v. 61 [no. 10] p. 1275-1283.

It is shown that molten antimony tribromide, as regards its properties as a solvent, belongs in the series of the ionizing "water-like" solvents. (Author)

(Chemistry--Physical, TT, v. 5, no. 7)

1. Antimony bromides--
Solvent properties
 2. Title: Molten salts
- I. Jander, G.
 - II. Weis, J.

148,528

Office of Technical Services

A Contribution to the Interpretation of the
Passivity of Iron, in Particular, of the Flade
Reference Potential, by H. Gahr, B. Lange, 22 p.

GERMAN, par, Zeit Elektrochem, 1957, Vol LXI,
No 10, pp 1291-1301.

ATS-241330

ATS 628-303

Sci
Apr 60
Vol III, No 2

111,673

Measurement of Transport Coefficients During
Electrolysis of Ag-halide Crystals, by
S. Mennenth.
GERMAN, par, Zeit. Elektrochem., No 54, 1958,
pp 433-436.
*NBS TT 70-59095
Available NBS Only

Sci/Chem
Sept 70

Recent Findings Concerning the Electro-Chemistry of
Nonaqueous Solutions: Conductances and Standard
Potentials, by L. Fischer, G. Winkler, G. Jander,
100 p.

GERMAN, par, Zeit fur Elektrochemie, 1958,
Vol LXII, No 1, pp 1-28.

DLA 59-17801

Sci
Feb 60
Vol 2, No 9

107,049

On the Condensation and Evaporation of Zinc Sulphide
and Cadmium Sulphide in a High Vacuum, by A. Heuhaus,
W. Retting, 27 p.

GERMANY, *Zeit fur Elektrochemie*, 1958, Vol LXII,
No 1, pp 33-40.

SLA 59-20373

Sci
Mar 60
Vol 3, No 1

110,886

The Chemical Reactions in Manganese Dioxide Electrodes,
by K. Neuman, W. Fink.

GERMAN, per, Z fuer Elektrochemie, Vol LXII, No 2,
1958, pp 114-122.

BAE 456

Sci - Chem

137,366

Jan 61

Concerning the Mechanism of Supersensitization
of Photographic Emulsions. A Contribution to
the Problem of Energy Transfer, I and II., 57 pp.

GERMAN, per, Zeitschrift fuer Elektrochemie,
Vol. LXII, No 2, 1958, pp 132-152.

SIA 59-15595

Sci.
Dec 59
Vol 2, No 4

103, 107

The Influence of the Substituents R in
Compounds M on the Electro-Acceptor
Strength of the Metal M, by W. Strohmeyer,
K. Fritschel, 7 pp.

¹⁴
GEBRAUCH, Z Elektrochem, Vol LXII, No 2, 1958,
pp 188-191.

Assoc Tech Gr
881260 .

Sci - Chem
Apr 59
CES, V. I, No 5

86,177

The Rate of Oxidation (Corrosion) of Titanium
in Molten Salts and the Composition of the
Oxidation Products, by M. E. Straumanis, Ch.
Chiou,

GERMAN, per, Z. Elektrochem., Vol LXII, No 2,
1958, pp 201-209.

ATS 506-GJ

Sci - Chem

Aug 60

123,934

The Mechanism of Ionization of Molecular Chlorine on
a Platinum Electrode, by A. Frumkin, G. Tedoradse,
GERMAN, per, Z fuer Elektrochemie, Vol LXII, 1958,
pp 251-256.
NASA TT F-9172

Sci-Phys
Jan 65

U.S. GOVERNMENT ONLY

270,905

The Mechanism of Electrolytic Deposition and Dis-
solution of Solid Metals. II. Galvanostatic Processes
on Silver Electrodes and the Kinetics of Crystal Growth,
by H. Gerischer.
GERMAN, per, Z fuer Elektrochemie, Vol LXII, 1958,
pp 256-264.
NASA TT F-9190

Sci-M7M
Feb 65
U.S. GOVERNMENT ONLY

~~XXX~~ 274,612

On the Mechanism of the Electrolytic
Deposition and Solution of Solid Metals,
II. Galvanostatic Transient Processes at
Silver Electrodes and the Kinetics of
Crystal Growth, by Heinz Gerischer, 18pp.
GERMAN, per, Zeitschrift fur Elektrochem,
Vol 62, No 3, 1958, pp 256-264.
CFSTI TT-64-18599.

322,351

Sci - Chemistry
Mar 67

The Relations Between the Anomalous Freezing
Point Depression and the Mechanical-Elastic
Behavior of Gels, by W. Kuhn, E. Peterli,
H. Maier, 12 pp.

GHSMAN, per, Z. für Elektrochemie,
Vol. LXXII, ~~1958~~ No 3, 1958, pp 296-300.

SLA 60-16799

Sci
Vol IV, No 7
May 62

193, 687

Liquid Anion Exchangers, by U. Schindewolf, 15 pp.

GERMAN, per, Z fuer Elektrochem, Vol LXII, 1958,
pp 338-340.

AKI-EP Tr-254

Sci - Chem
Sep 59

96,715

On Selective Solvation of Ions in Solvent
Mixtures, by H. Strehlow, H. -M Koepf.
GERMAN, per, Zeitschrift fuer Elektrochemie,
Vol 62, No 3, 1958, pp 373-378.
SLA TT-66-10351

Sci-Chem
Sept 66

310,378

Potentiometry on Silver Halide Single Crystals:
Contribution to the Mechanism of Photographic
Development, by H. Matejec, 11 pp.

GERMAN, part 2 Elektrochemie, Vol LXII, No 6,
1958, pp 407-409.

SLA 59-15031

Sci - Chem
Sep 59
Vol 2, No 1

97,430

Form of Development Silver (A Contribution to the
Elucidation of the Mechanism of Photographic
Development, by E. Klein, 32 pp.

GERMAN, par, Zeit fuer Elektrochemie, Vol LXII,
No 5, 1958, pp 505-519

SIA 59-15032

Sci. - Physics
Sep 59
Vol. II, No 2

98,635

Relationship Between Raman Scattering, Absorption and
Fluorescence (Resonance Raman Effect, by J. Behringer,
2

GERMAN, per, Z Elektrochem, Vol LXII, No 5, 1958,
pp 544-567.

ATS 429-GJ

Sri - Chem

Aug 60

123,343

The Effect of Hydrogen Ion Concentration
on the Electrochemical Behavior of Active
Iron in Acid Solutions, The Mechanism of
the Reaction $Fe \rightleftharpoons Fe^{++} + 2e$, by K. E. Heusler
10 pp.

GERMAN, *pt.*, *Z fuer Elektrochemie*,
Vol. LXII, No 5, 1958, pp 582-587.

ATS-70M410

Sci
Vol IV, No 7
Apr 62

192,664

Experimental Results on Passive Iron, by K. G. Weil.

GERMAN, per, Z fuer Electrochemie, Vol LXII, No 6/7, 1958, pp 638-641.

ATB 630-GJ

Sci - Chem

Jun 61

156,541

Thickness and Structure of Passivating Oxide
Layers on Iron, by K. J. Vetter.

GERMAN, per, Z fuer Electrochemie, Vol LXII,
No 6/7, 1958, pp 642-648.

ATS 636-GJ

Sci - Chem

Jun 61

156,540

<p>Franck, U. F. INSTABILITY PHENOMENA IN METALS THAT CAN BECOME PASSIVE. [1962] 12p. Order from ATS \$13.75 ATS-00P60G</p> <p>Trans. of Zeitschrift für Elektrochemie (West Germany) 1958, v. 62, no. 6/7, p. 649-655.</p> <p>DESCRIPTORS: *Metals, *Passivity, Electrochemistry</p> <p>(Chemistry--Physical, TT, v. 8, no. 4)</p>	<p>62-17697</p> <p>I. Franck, U. F. II. ATS-00P60G III. Associated Technical Services, Inc., East Orange, N. J.</p> <p><i>ATS/979-23</i></p> <p>Office of Technical Services</p>
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Investigation of the Passivity of Metals Through
Measurements of the Electrode Impedance at High
Frequencies, by B. N. Kabanov, N. I. Leikis, 6 p.

GERMAN, per, Zeit Elektrochem, 1958, Vol LXII,
No 6/7, pp 660-663.

ATG-22L33X

Sci
Mar 60
Vol 2, No 11

109,551

The Structure of the Passive Film on Chromium
Steels, by M. Prazak, V. Prazak, Vl. Cibal,
10 p.

GERMAN, part, Zeit Elektrochem, 1958, Vol LXII,
No 6/7, pp 739-745.

ATB-261330

TS-41-35

Sci
Mar 60
Vol 2, No 11

109,558

The Passivation of Chromium in Dilute Sulfuric
Acid, by Th. Heumann, F. W. Diekötter, 7 p.

GERMAN, par, Zeit Elektrochem, 1958, Vol LXII,
No 6/7, pp 745-750.

ATB-25L330

Bei
Mar 60
Vol 2, No 11

109,550

The Passivity of Nickel, by K. Selwabe, G. Dietz,
13 p.

GERMAN, per, Zeit Elektrochem, 1958, Vol LXII,
No 6/7, pp 751-759.

ATEB-23L33E

Sci
Mar 60
Vol 2, No 11

109,560

Anodic Passivation and Depassivation of Lead in
Sulphuric Acid, by W. Reikrecht. UDEL

GERMAN, Ger. J. Electrochem, VOL LXIII, No 6/7,
1958, pp 795-803.

RAE B41

Sci - Chem
Mar 60

111,867

Theory of the Resonance Raman Effect, by J.
Behringer,

GERMAN, pt. 3 Elektroche, Vol LXII, No 8, 1958,
pp 906-914.

AMS 430-GJ

Sci - Chem

Aug 60

123,344

Jander, G and Fischer, L.
ZINC DIETHYL AS A SOLVENT. II. CONDUCTIVITY
INVESTIGATIONS (Über Zinkdiethyl als Lösungsmittel.
II. Leitfähigkeituntersuchungen). [1960] [15]p.
15 refs.
Order from SLA ml52.40, ph\$3.30 61-10525

Trans. of Zeitschrift für Elektrochemie (West
Germany) 1958, v. 62, p. 971-977.

The conductivity behavior of n-Bu₄NI, Li ethyl, ZnI
ethyl and AlBr₃ in Zn diethyl solutions was studied in
relation to concentration at 20°C. The course of reac-
tions of ZnI ethyl and AlBr₃ with Li ethyl or AlBr₃ with
ZnI ethyl was studied conductometrically. The results
corroborate the conclusions drawn in report No. 1. An
evaluation based on material available to date would
assign to Zn diethyl a kind of middle position, corre-
sponding to its solvent properties, between the ionizing
solvents on the one hand and the inert organic solvents
on the other. (Author)

(Chemistry--Physical, TT, v. 5, no. 7)

- 1. Zinc compounds (Organic)--
Solvent properties
- 2. Zinc compounds (Organic)--
Conductivity
- I. Jander, G.
- II. Fischer, L.
- III. Title: Conductivity...

148,547

Office of Technical Services

Contribution to the Theory of Alternating Current
Polarography, by Hiroaki Matsuda, 40 pp.

GERMAN, per, Zeitschrift für Elektrochemie,
Vol. LXII, 1958, pp 977-989. (9208279)

ABC-OCHE-Tr-932

Sci - Phys

Jun 63

234302

62-14093

Klein, E.
THE RELATIONS BETWEEN THE BLACKENING AND
THE SIZE OF THE DEVELOPED UNITS OF SILVER.
[1961] [22]p. 9 refs.
Order from SLA \$2.60 62-14093

Trans. of Zeitschrift für Elektrochemie (West
Germany) 1958, v. 62, no. 9, p. 993-999.

DESCRIPTORS: *Colors, *Silver, Measurement,
*Electron microscopy, Chemical analysis, Colloids,
*Photographic emulsions, Particle size.

(Materials--Photographic, TT, v. 10, no. 11)

I. Klein, E.

Office of Technical Services

separation and the Critical Point in Solid and
Liquid Mixtures, by A. Münster, K. Sagol, 21 pp.

GERMANY, East, Zeit Elektrochemie, Vol LXII, No 10,
1958, pp 1075-1082. 9207230

REC/EP Tr-977

Sci - Phys

May 68

232,214

Measurement of Diffusion in Crystals by Isotope
Exchange with Gases, by R. Maul, D. Just, 11 P.

GERMANY, *Zeit Elektrochemie*, 1958, Vol LXII,
No 10, pp 1124-1130.

ATS-071.330

Sci
Feb 60
Vol 2, No 12

108,248

Effect of Small Amounts of Oxygen on the
Behavior of Metal Electrodes, by R. Ch. Burstein.
GERMAN, per. Zeitschrift Fur Elektrochemie,
Vol 62, No 47, 1958, pp 655-660.
HB 0490

EE-Ger
Sci/M&M
May 65

280,701

61-10635

Briegleb, G. and Czekalla, J.
THE DETERMINATION OF IONIZATION ENERGIES
FROM THE SPECTRA OF ELECTRON TRANSITION
COMPLEXES (Die Bestimmung von Ionisierung-
senergien aus den Spektren von Elektronenübergangs-
komplexen). [1960] 118 p. 86 refs.
Order from SLA ml\$2.40, ph\$3.30 61-10635

1. Organic compounds--
ionization
 2. Molecules--Electron
transitions
- I. Briegleb, G.
 - II. Czekalla, J.

Trans. of Z[eitschrift für] Electrochem[ie] (West
Germany) 1959, v. 63 [no. 1] p. 6-12.

151801

The ionization energy of molecules which have elec-
tron donor properties is determinable from the energy
 $h\nu$ of an intermolecular electron band, for example
with trinitro benzene, chloranil, or iodine as acceptor.
This method is applied for the calculation of the ion-
ization energy of condensed aromatic hydrocarbons,
diphenylpolyenes, N-substituted anilines and other
aromatic amines. It is particularly applicable in
cases where the hitherto known experimental proce-
dures are not suitable. (Author)
(Chemistry--Physical, TT, v. 5, no. 9)

Office of Technical Services

Feltkrecht, W.
ON THE OXIDATION OF SOLID HYDROXY COM-
POUNDS OF IRON IN AQUEOUS SOLUTIONS.
[1961] 19p. (16 figs. omitted) 45 refs.
Order from SLA \$1.60 62-10363

Trans. of Z[eitschrift fur] Elektrochem[ie] (West
Germany). 1959, v. 63 [no. 1] p. 31-43.

DESCRIPTORS: *Iron compounds, *Hydroxides,
Solids, *Oxidation, Solutions, Mixtures, X-rays,
Electron microscopy, Magnetic, Crystals.

The oxidation of $\text{Fe}(\text{OH})_2$ by O_2 or O_2/N_2 mixtures
in both strong and weak alkaline solutions in the
presence of Cl^- and SO_4^{--} ions has been investigated
by using X-rays and electron microscopy. On very
rapid oxidations FeOOH (formerly designated β
 Fe_2O_3) is formed topochemically. In 1 N NaOH at
70°C, β FeOOH is converted into α FeOOH through-
(Chemistry--Physical, TT, v. 7, no. 9) (over)

62-10363

I. Feltkrecht, W.

11

Office of Technical Services

The Mechanism of the Decomposition of Wustite
 $Fe_{1-x}O$ Below $570^{\circ}C$, by A. Hoffmann.

GERMAN, per, Z fuer Elektrochemie, Vol LXIII,
No 2, 1959, pp 207-213.

BISI 2766

Sci - Chem

204,770

Jul 62

list 139

On the Relation Between Deposition Conditions and
Growth Form in Electrocrystallization of Copper, by
H. Seiter, H. Fischer, 28 pp.

~~GERMANY~~, ~~per~~, ~~Z. für Elektrochem.~~, Vol LXIII, No 2,
1959, pp 249-257.

SLA 60-16810

Sci

Apr 62

191,343

Vol IV, No 6

Relationship Between Precipitation Conditions and
Form of Growth During Electrocrystallisation of
Copper, by H. Seiter, H. Fischer.
GERMANY, per, Z. Elektrochem., Vol. 63, No 2, 1959
pp 249-257.
CRL/D.669

sci/ chem
aug 69

389,662

The Nature of the Passive Layers on Thin Nickel
Films, by H. Pfisterer, A. Politycki, E.
Fuchs, 7 pp.

GERMAN, per, Z. fuer Elektrochemie.
Vol LXIII, No 2, 1959, pp 257-261.

ATS-7341G

ATS/981-GJ

Stat
Vol IV, No 7
Apr 62

193,846

The Electrical Conductivity of Oxides, by W.
Noddack, H. Walch, 19 pp.

GERMAN, per, Z Electrochem, Vol LXIII, 1959,
pp 269-274.

ABC Tr-4369

Sci - Chem
Apr 61

149,555

CEA-tr-A-715 (Rpt: UNCLASSIFIED)
ETUDE DES PROPRIÉTÉS ÉCHANGEUSES
D'IONS DES COMPOSÉS MINÉRAUX DE
L'ÉTAIN ET DU ZIRCONIUM À L'AIDE DES
ISOTOPES TRACEURS. (Study of the Ion
Exchange Properties of Mineral Compounds of
Tin and Zirconium Using Isotope Tracers).
E. Merz. Translated into French from Z. Elek-
trochem. 63, 288-92(1959). 16p. 12/15/60.
Nonproject.

NSA

C

General

Witrig, Franz Eberhardt.
ON THE SYSTEMATOLOGY OF THE HEATS OF
MIXING OF THE B-METALS. Rept no. 9 on the
Contributions to the Energetics of Metallic Systems.
[1963].

Order from FRI

FRI Trans-181

SLA 63-18067

Trans. of Zeitschrift für Elektrochemie (West Germany)
1959, v. 63, no. 2, p. 327-341.

DESCRIPTORS: *Metals, *Metallic crystals, *Electro-
chemistry, Heat transfer, Energy, Mixtures.

(Metallurgy, TT, v. 10, no. 8)

63-17870

63-18067

- I. Title: B metals
- I. Witrig, F. E.
- II. Title: Contributions ...
- III. FRI Trans-181
- IV. Fulmer Research Inst.,
Ltd. (Gt. Brit.)

Office of Technical Services

The Behavior of High Polymers Towards Direct
Current, by H. U. Harwig, E. Jankel, 23 p.

GERMAN, per, Zeit Elektrochem, 1959, Vol LXIII,
No 3, pp 360-373.

ATIS-481330

Sci
Mar 60
Vol 2, No 11

109,549

The Effect of Stearic Acid Coatings on the Volta
Potential of Gold, by G. Radlein, H M. Honrath.
UNCLASSIFIED

GERMAN, per, Z fuer Elektrochemie, Vol LXIII, No 3,
1959, pp 397-399. *4876957*

Navy 2604/NRL § 802

Sci - Chem
Aug 60

122,430

WILL, F. G.
THE DYNAMIC CHARACTERISTICS OF POTENTIAL-
STATIC REGULATOR CIRCUITS. [1961] 17p.
Order from ATS \$19.95 ATS-01N49G

Trans. of Zeitschrift für Elektrochemie (West
Germany) 1959, v. 63, no. 4, p. 484-491.

1. Electrochemistry--
Instrumentation
 2. Potentiometers--Circuits
 3. Title: Potentiostatic
regulators
- I. Will, F. G.
 - II. ATS-01N49G
 - III. Associated Technical
Service, Inc., East
Orange, N. J.

105892

Office of Technical Services

(Chemistry--Physical, TT, v. 5, no. 10)

State of Association of Miscelved Organo-
Metallic Compounds of the II., III. and
IV. groups of the Periodic System of the
Elements, by Walter Strohmayer, Karlheinz
Bumpner, Karlheinz Miltenberger, F.
Seifert, 6 pp.
GERMAN, per, Zeitschrift für Elektrochemie,
Vol 63, No 4, 1959, pp 537-539.
SLA TT-64-30941

336,215

Sci
Aug 67

The Effect of Medium-Fast Electrons on Some Metals
Gudden, by C. V. Koch, O. Glemser.
GERMANIAN, pt. 7, Z. Naturforschungsphysik, Vol. LXIII, No 3,
1959, pp 557-566.
*ABC

Sci-Phys
Jan 65

The Electrolytic Conductivity of
Dissolved Organometallic Compounds as
A Function of the Electron Acceptor
Strength of the Metal and the Electron
Donor Strength and Dielectric Constant
of the Solvent, by Walter Strohriener,
Erich Seifert, 10 pp.
GERMAN, per, Zeitschrift für Elektrochemie,
Vol 63, No 6, 1959, pp 683-688.
RLA IT-6-30985

Aug 67
Sci

336,225

Observations on the Effect of Surface Diffusion in
the Growth of Potassium Crystals From Super-
Saturated Vapour, by W. Dittmar, & K. Neumann,

GERMAN, per, Z Elektrochemie, Vol LXIII, 1959,
pp 737-741.

RAE 977

Sci - Chem

200,902

Jun 62

Decarbonization and Denitriding of Iron-Silicon
Alloys, by J. D. Fast,

GERMAN, *see* Z Elektrochemie, Vol LXIII, No 7,
1959, pp 765-772.

BISI 2144

Sci - M/M
Aug 63

342,159

Title Unknown, by W. Schottky.
GERMAN, per, Zeit fur Elektrochemie,
Vol LXIII, 1959, pp 784-788.
*AEC Tr 2337

Sci-Elect /Misc
Feb 66

*Check AEC
Before Releasing*

Redox Processes on Germanium Electrodes, by F. Beck,
H. Gaischer.
GERMAN, per, Z. fuer Elektrochemie, Vol LXIII,
1959, pp 943-980.

Langung Sv Hu
JLA 60-16230

Sci - Chem

62-10119

Oct 60

11/24/1055-129,639

63-12926

Cordes, H. and Rotger, H.
A CONTRIBUTION TO THE ELECTRICAL CONDUCTIVITY MECHANISM OF MELTS OF METALLIC-ORGANIC COMPLEX COMPOUNDS AND THEIR SOLUTIONS WITH ASSOCIATING SOLVENTS. [1962] 19p.
Order from K-H \$23.75 K-H 9820

- I. Cordes, H.
- II. Rotger, H.
- III. K-H-9820
- IV. Kresge-Hooker Science Library Associates, Detroit, Mich.

Trans. of Zeit[schrift] für Elektrochemie (West Germany) 1959, v. 53, p. 1030-1037.

DESCRIPTORS: *Electrical conductance, Melting, *Metalorganic compounds, Solutions, Solvents, Complex compounds.

(Chemistry--Physical, TT, v. 9, no. 10)

Office of Technical Services

Hertz, H. G. and Spakhoff, W.
ON THE CHEMICAL SHIFT OF THE PROTON RESONANCES OF WATER IN ELECTROLYTE SOLUTIONS. [1963, 55]p. 48 refs.
Order from SLA \$5.60 63-18091

Trans. of Zeitschrift für Elektrochemie (West Germany) 1959, v. 63, no. 9/10, p. 1096-1110.

DESCRIPTORS: *Electrolytes, Solutions, Water, *Chemical bonds, *Protons, *Nuclear resonance, *Resonance absorption.

The inclusion of a molecule in a hydrogen bridge bond entails a reduction of the screening of the proton located in the polar group. This rule is corroborated by a compilation of the data for systems containing hydrogen bridge bonds obtained by the NMR-method. It is of interest to determine whether this rule is also (Chemistry--Physical, TT, v. 10, no. 8) (over)

63-18091

I. Hertz, H. G.
II. Spakhoff, W.

Office of Technical Services

Karagounis, G. and Peter, O.
THE INFRARED SPECTRA OF ORGANIC COM-
POUNDS SPREAD IN THIN LAYERS ON SURFACES
OF IONIC LATTICES. PT. 3. [1961] 18p.
Order from ATS \$26. 45 ATS-OSNSOG

Trans. of Zeitschrift für Elektrochemie (West
Germany) 1959, v. 43, no. 9/10, p. 1120-1133.

DESCRIPTORS: *Infrared spectroscopy. *Organic
compounds. *Thin films. Lattices, ions

(Chemistry--Physical, TT, v. 6, no. 3)

61-22652

I. Karagounis, G.
II. Peter, O.
III. ATS-OSNSOG
IV. Associated Technical
Services, Inc., East
Orange, N. J.

ATS/249-6J

115845

Office of Technical Services

The Measurement of Rapid Reactions in Solution
Using the Rotating Disk Electrode, by W.
Vielstich, D. Jahn, 4 pp.

GERMAN, per, Z fuer Elektrochemie, Vol LXIV,
No 1, 1960, pp 43-44.

SLA 60-18794

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TT-65-13810 Field 7D

Berg, H.; Kapulla, H.
VELOCITY DETERMINATION OF FAST REACTIONS IN
SOLUTION FROM DIFFUSION CURRENT-TIME FUNC-
TIONS OF THE DROPPING MERCURY ELECTRODE.
5p, 6refs.
Order from SLA: \$1.10 as TT-65-13810

Trans. of Zeitschrift fuer Elektrochemie (West Germany)
v64 n1 p44-5 1960.

MR 666

62-17176

Vetter, K. J. and Arnold, K.
CORROSION AND OXYGEN OVERPOTENTIAL OF
PASSIVE NICKEL IN SULFURIC ACID. [1962] 13p.
Order from ATS \$18.90 ATS-01P60G

Trans. of [Zeitschrift für] Elektrochem[ie] (West
Germany) 1960, v. 64, p. 244-251.

DESCRIPTORS: *Corrosion, *Oxygen, *Electric
potential, *Nickel, Passivity, Sulfuric acid,
Electrochemistry.

(Chemistry--Physical, TT, v. 8, no. 3)

- I. Vetter, K. J.
- II. Arnold, K.
- III. ATS-01P60G
- IV. Associated Technical
Services, Inc., East
Orange, N. J.

Office of Technical Services

Investigation of Formation and Removal of
Hydrogen and Oxygen Deposits on Platinum
by a New Nonstationary Method, by
P. C. Hill, C. A. Rupp.
USNMMI, per, Z fuer Elektrochemie, Vol LXXV,
1960, pp 243-249.
NASA RT P-9049

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Apr 65
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Investigation of Absorption Processes in
Thiosulfon, Iridium, Palladium and Gold Using
the Electrostatic Delta Method, by
F. G. Hill, C. A. Kerr.
GHEMALL, per, Z. fuer Elektrochemie, Vol LXIV,
1960, pp 270-279.
NASA TR P-9250

Sci-Chem
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Analysis of Long Period Interference in the Case
of Synthetic Fibres, by R. Bonart, R. ~~S~~ilosemann.

GERMAN, per, Z fuer Elektrochemie, Vol LXIV, No 2,
1960, pp 314-321.

GB/165

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Eggenschwiler, Hermann and Jaenicke, Walther.
CATALYTIC ACTIVITY OF PHOTOGRAPHICALLY
DEVELOPED SILVER FOR THE REDUCTION OF
SILVER COMPLEXES. [1961] 10p. 10 refs.
Order from SLA \$1.10 61-18671

Trans. of Zeitschrift [für] Elektrochemie (West
Germany) 1960. v. 64, no. 3, p. 391-394.

DESCRIPTORS *Photographic emulsions, Processing,
*Silver, Catalysis, *Silver compounds, Complex com-
pounds, Reduction, Oxidation, Diffusion.

Photographic emulsions were developed for different
lengths of time and then fixed. Silver was liberated
from soluble citrate complexes on the silver threads
formed by a second development. The reduction speed
observed for layers developed only for a short time
(small nuclei) passes through a sharp maximum. This
(Materials--Photographic, TT, v. 6, no. 10) (over)

61-18671

I. Eggenschwiler, H.
II. Jaenicke, W.

1875

Office of Technical Services

Arnold, K. and Vetter, K. J.
THE FLADE POTENTIAL OF PASSIVE NICKEL.
[.952] 12p.
Order from ATS \$16. 45 ATS-02P60G

Trans. of Z[eitschrift für] Elektrochem[ie] (West
Germany) 1960, v. 64, no. 3, p. 407-413.

DESCRIPTORS: *Nickel, *Passivity, *Electric
potential.

Handwritten notes:
...
...

(Chemistry--Physical, TT, v. 8, no. 2)

62-17317

- I. Title: Flade potential
- I. Arnold, K.
- II. Vetter, K. J.
- III. ATS-02P60G
- IV. Associated Technical Services, Inc., East Orange, N. J.

ATS/980-6J

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Electrode Reactions on Active, Passive, and
Transpassive Chromium, by H. Weidinger, R.
Lange, 16 pp.

GERMAN, par, Z. fuer Elektrochemie,
Vol LXIV, No 4, 1960, pp 468-477.

ATS-16 M40

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Koopp, H.-M., Wendt, H., and Srehlow, H.
THE COMPARISON OF ELECTROMOTIVE SERIES
IN DIFFERENT SOLVENTS, PT. 2. [1962] 13p.
Order from ATS \$16.75 ATS-27P60G

Treat. of Z[schrift für] Elektrochem[ie] (West -
Germany) 1960, v. 64, no. 4, p. 483-491.

DESCRIPTORs: *Organic solvents, Electrochemistry,
Electrodes, Electric potential.

(Chemistry--Physical, TT, v. 8, no. 2)

- I. Title: Electromotive series
- I. Koopp, H.-M.
- II. Wendt, H.
- III. Srehlow, H.
- IV. ATS-27P60G
- V. Associated Technical
Services, Inc.,
East Orange, N. J.

Office of Technical Services

The System Smooth Pt/H₂O₂, O₂, H₂O With Special
Reference to Electrode Pretreatment, by J. Giner.
GERMAN, per, Zeitschrift fuer Elektrochemie,
Vol 64, 1960, pp 491-500.
NTC-71-16251-07D

Re. so. TTF 10/01 Guo

Jan 72

Examination of the Reaction Zone of Detonations
in Knallgas, by T. Just.
GERMAN, per, Zeitschrift fuer Elektrochemie,
Vol 64, 1960, pp 501-513.
ntc-71-15634-19D

Feb 72

The pH-Function of the Fluorescence of
Naphthalene Derivatives, by Th. Foerster, 9 pp.
GERMANN, par. 2, Ann. Elektrochem., Vol. LIV, 1950,
pp 531-535.
AEC-APAL-Tr-113

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Aug 68

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63-12924

Hoffmann, E. G.
MOLECULAR SPECTROSCOPE INVESTIGATIONS ON
ORGANO-ALUMINUM COMPOUNDS. IV. ON THE
SPECTROSCOPIC IDENTIFICATION OF THE ASSO-
CIATION OF COMPOUNDS OF THE TYPE ALR_3 AND
 ALR_2Cl . [1962] 28p.
Order from K-H \$32.00 K-H-10486

I. Hoffmann, E. G.
II. K-H-10486
III. Title: Spectroscopic ...
IV. Kresge-Hooker Science
Library Associates,
Detroit, Mich.

Trans. of Zeitschrift für Elektrochemie (West
Germany) 1960, v. 64, no. 3, p. 616-631.

DESCRIPTORS: *Molecular spectroscopy, Analyst,
*Metalorganic compounds, Spectroscopy, *Aluminum
compounds, Identification.

(Chemistry--Physical, TT, v. 9, no. 10)

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Infrared Investigations of Isotopic Nitro-
gen Compounds, Part I. The Location of
the Valence Frequency of the -N-N Double
Bond, by R. Kubler, W. Luttke, et al,
17 pp.

GERMAN, per, Z. fuer Elektrochemie, Vol.
LXIV, 1960, p 650. 9066981

ARC Tr-5283

Sci - Phys
Oct 62

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Excess Potential and Kinetics of Tl^3 / Tl^1
Oxidation-Reduction Electrode, by K. J.
Vetter, G. Thiemke, 17pp.
GERMAN, per, Zeitschrift fur Elektrochemie,
Vol 64, No 6, 1960, pp 805-812.
CPSTI TT-64-18554.

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Sci - Chemistry
Mar 67

On the Photochemistry of Substitution and
Isomerisation Reactions of Complex Ions of
Trivalent Chromium, by H. F. Schlafer.

GERMAN, par, Zeit für Elektrochemie, Vol LXIV,
No 7, 1960, pp 887-890.

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Faculty of Science
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Sci - Phys
Oct 61

<p>Wilk, M. SEMICONDUCTOR PROPERTIES OF AROMATIC HYDROCARBONS. [1960] 11p. Order from ATS \$14.60 ATS-25N480</p> <p>Trans. of Z[itachristh, fir] Elektrochemie (West Germany) 1960, v. 64, no. 7, p. 930-936.</p> <p>151575</p> <p>(Physics--Solid State, TT, v. 5, no. 8)</p>	<p>61-12800</p> <ol style="list-style-type: none">1. Hydrocarbons--Electrical properties2. Semiconductors--Materials <ol style="list-style-type: none">I. Wilk, M.II. ATS-25N480III. Associated Technical Services, Inc., East Orange, N. J. <p>15106/10 5131 ATS/755-65</p> <p>Office of Technical Services</p>
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Selectivity and Typical Reaction Mechanisms in
Radiation Chemistry, by G. O. Echerck, 72 pp.

GERMAN, per, Z. fuer Elektrochemie, Vol LXIV,
1960, pp 997-1011. 9000000

AERE, Harwell

MP Tr-683

SLA TT-64-0267 (71)

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Sci - Nuc Phys
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Reactions of Cyclohexane and Other Hydrocarbons
Under the Influence of ^{60}Co - - Radiation, by
D. Hummel, H. Barzynski, 16 pp.

GERMAN, per, *Z für Elektrochemie*, Vol LXIV,
Nov 1960, pp 1015-1019. 208079

AERE, Harwell
NP Tr-679

Sci - Nuc Phys
Sep 61

166,193

Fission Product Diffusion and Self Diffusion
in High Temperature Nuclear Fuels,
by R. Lindner, H. Matske, IX et al., 11 pp.

ROGERMAN, per, Z. elektrochem, Vol LXIV,
1960, pp 1042-1045.

ABC-Tr-5206
CEA TR-A-1172 Rev TN
210, 923

Sci - Fuels,
Nuc Phys
S p 62

Reaction Activation Analysis in Strong, Redox
Absorbers, by F. Baumgartner, 17 pp.

GERMAN, per, Zeitschrift für Elektrochemie,
Vol LXXV, No 8/9, 1960, pp 1077-1080. 9215969

ACSIL Tr 1427

Sci - Chem
Jun 64

248,806

Neutron Activation, by W. G. H. ...

GERMAN, per, Zeitschrift für Elektrochemie,
Vol LXIV, No 8/9, 1960, pp 1083-1088. 9215987

ACSIL Tr 1428

Sci - Chem
Jan 64

248, 805

Counting of Radioisotopes of Metallic Elements in
Liquid Scintillators, by Gerhard Erdmann, Gunter
Herrmann, 14 pp.

GERMAN, per, Z Elektrochem, Vol LXIV, 1960,
p 1092.

AEC 15-4444

Sci - Phys
May 61.

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TT-64-14009

Ohse, R. W.
AN OSCILLOGRAPHIC INVESTIGATION OF THE
ELECTRODE REACTIONS IN THE SYSTEM
Cd/AQUEOUS SOLUTION WITH THE INTERMIT-
TENTLY GALVANOSTATIC MEASURING METHOD.
[Mar 63] 32p 29refs
Order from SLA \$3.60 TT-64-14009

I. Ohse, R. W.

Trans. of Zeitschrift für Elektrochemie (West
Germany) 1960, v. 64, no. 10, p. 1171-1179.

(Chemistry--Physical, TT, v. 11, no. 12)

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Infrared Spectroscopic Study of isotopic
Nitrogen Compounds, Part II. The Vibrational
Spectrum of Benzamide, by S. Weckherlin,
W. Lutke, 14 pp.

GERMAN, per, Z. Elektrochemie, Vol LXIV,
1960, pp 1228-1234. 9067005

ABC Tr-5277

Sci - Chem
Oct 62

212,531

The Problem of Excess Oxygen in Nickel Oxide,
by Hartmut Gossel, 14 pp.
GERMAN, per, Z fuer Electrochemie, Vol LXV, 1961,
pp 98-102. 9226026
AEC-UCRL-Tr-1074 (L)

Sci-Chem
Dec 64

270,142

Stability and Spread of Flames, by H. G. Wagner.

GILMAN, per, Z. ^{Witt} Elektrochemie, Vol LIV, No 3,
1961, pp 290-295.

OT 7322
ENSE 14767

Sci. - Chem

Aug 63

54 3,665

The Mechanism of Chemisorption of Gases on
Oxides, by Karl Hauffe, 19 pp.

GERMAN, per, Z. Elektrochem, Vol LXV, 1961.
pp 321-327.

Sci - Chem

Sep 62

AM: UCRL-Tr 831(L)
CEA A-1157
RM TN
2/2, 66/

Measurements in the Reaction Zone of
Hydrocarbon-Oxygen Detonations, by T. Just
GERMAN, per, Zeitschrift fuer Elektrochemie,
Vol 65, 1961, pp 411-416
NTC 71-15274-07D

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Jänicke, W[alter] and Lorenz, B.
HALFTONE PROCESSES AND THE CHARACTERISTIC
CURVE IN ELECTROPHOTOGRAPHY. [1963] 21p
Order from ATS \$22.50 ATS-65Q72G

Trans. of [Zeitschrift für] Elektrochem[ie] (West
Germany) 1963, v. 65, no. 6, p. 493-503.

DESCRIPTORS: *Electrophotography, Photographic
processors.

(Materials--Photographic, TT, v. 11, no. 4)

TT-64-12080

- I. Jänicke, W.
- II. Lorenz, B.
- III. ATS-65Q72G
- IV. Associated Technical
Services, Inc.,
East Orange, N. J.

Office of Technical Services

63-16404

Beck, F. and Gerischer, H.
ELECTROCHEMICAL VIEWPOINTS CONCERNING
CATALYTIC HYDROGENATION AT PLATINUM CON-
TACTS IN BUFFERED SOLUTIONS. 25 Feb 63 [39]p.
33 refs.
Order from SLA \$3.60 63-16404

I. Beck, F.
II. Gerischer, H.

Trans. of Zeitschrift für Elektrochemie (West
Germany) 1961, v. 65, p. 504-517.

DESCRIPTORS: Electrochemistry, *Cyclohexanes,
*Styrenes, Allyl radicals, Butenyl radicals, *Alcohols,
Methyl radicals, Vinyl radicals, *Carbinols, Ethyl
radicals, *Acetates, *Acrylic acid esters, Ethers,
*Acetones, Mesityl radicals, Oxides, Phenyl radicals,
*Acetylenes, *Nitrobenzenes, *Hydrogenation, *Plati-
num electrodes, Catalysts, Polarization, Ions, Chlo-
rides, Hydrogen ion concentration, Buffers, Reaction
kinetics.

(Chemistry--Physical, TT, v. 10, no. 7) (over)

Office of Technical Services

Theory of Ageing of Precipitates by Re-Solution,
by G. Wagner,
GERMAN, per. Z. Elektrochemie, Vol 65, No 7/8,
1961, pp 581-591.
BISI 8845

Jun 71